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☐ 1. Document ID: US 20050090929 A1

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File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090929

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050090929 A1

TITLE: Apparatus and method for simulation of the control and machine behavior of machine tools and production-line machines

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Dolansky, Stefan

Altdorf

DE

Menzel, Thomas

Erlangen

DE

Papiernik, Wolfgang

Neunkirchen

DE

US-CL-CURRENT: 700/169; 700/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des
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File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090929

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050090929 A1

TITLE: Apparatus and method for simulation of the control and machine behavior of machine tools and production-line machines

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dolansky, Stefan	Altdorf		DE
Menzel, Thomas	Erlangen		DE
Papiernik, Wolfgang	Neunkirchen		DE

US-CL-CURRENT: 700/169; 700/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des
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☐ 2. Document ID: US 5212645 A

L2: Entry 2 of 2

File: USPT

May 18, 1993

US-PAT-NO: 5212645

DOCUMENT-IDENTIFIER: US 5212645 A

TITLE: Flexible real-time, multi-tasking architecture for tool condition monitoring

DATE-ISSUED: May 18, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wildes; Douglas G.	Ballston Lake	NY		
Hayashi; Steven R.	Schenectady	NY		
Montanaro; George D.	Scotia	NY		

US-CL-CURRENT: 700/108; 340/680, 702/145, 702/44


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1 [Performance prediction tools for parallel discrete-event simulation](#)

Chu-Cheow Lim, Yoke-Hean Low, Boon-Ping Gan, Sanjay Jain, Wentong Cai, Wen Jing Hsu, Shell Ying Huang

 May 1999 **Proceedings of the thirteenth workshop on Parallel and distributed simulation**
Publisher: IEEE Computer Society

 Full text available: [pdf\(788.70 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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We have developed a set of performance prediction tools which help to estimate the achievable speedups from parallelizing a sequential simulation. The tools focus on two important factors in the actual speedup of a parallel simulation program : (a) the simulation protocol used, and (b) the inherent parallelism in the simulation model. The first two tools are a performance/parallelism analyzer for a conservative, asynchronous simulation protocol, and a similar analyzer for a conservative, synchro ...

2 [Using the SimOS machine simulator to study complex computer systems](#)



Mendel Rosenblum, Edouard Bugnion, Scott Devine, Stephen A. Herrod

 January 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 7 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(731.76 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: computer architecture, computer simulation, computer system performance analysis, operating systems

3 [Retargetable compiled simulation of embedded processors using a machine description language](#)



Stefan Pees, Andreas Hoffmann, Heinrich Meyr

 October 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(4.06 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fast processor simulators are needed for the software development of embedded processors, for HW/SW cosimulation systems, and for profiling and design of application-specific processors. Such fast simulators can be generated based on the machine description language LISA. Using this language to model processor architectures enables the generation of compiled simulators on various abstraction levels, assemblers, and compiler back ends. The article discusses the requirements of software devel ...

Keywords: DSP processors, HW/SW cosimulation, compiled simulation, instruction set simulators, machine description languages, processor modeling and simulation, system-on-chip

4 Execution-driven tools for parallel simulation of parallel architectures and applications



D. K. Poulsen, P.-C. Yew

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Manufacturing applications: Manufacturing modeling architectures: an architecture for a generic data-driven machine shop simulator

Charles McLean, Al Jones, Tina Lee, Frank Riddick

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  pdf(228.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Standard interfaces could help reduce the costs associated with simulation model construction and data exchange between simulation and other software applications -- and thus make simulation technology more affordable and accessible to a wide range of potential industrial users. Currently, small machine shops do not typically use simulation technology because of various difficulties and obstacles associated with model development and data translation. This paper provides an overview of work c ...

6 The use of micro level simulation in the design of a computer supervisory system

George K. Hutchinson

June 1973 **Proceedings of the 1st symposium on Simulation of computer systems**

Publisher: IEEE Press

Full text available:  pdf(1.26 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the use of simulation, at the instruction level, in the design of the supervisory software of a multi-computer system. The computer system included a supervisory computer, satellite mini computers, secondary data storage devices, and terminals with probabilistic data demands. The model development criteria was to consider every instance of conflict in resource allocation and to simulate its resolution. The computer system was primarily concerned with supplying data to t ...

7 The hierarchical simulation language HSL: a versatile tool for process-oriented simulation



D. P. Sanderson, R. Sharma, R. Rozin, S. Treu

April 1991 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.68 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: C++, HSL, hierarchy, inheritance, interpreter, modularity, process, simulation programming language

8 Getting graphics in gear: graphics and dynamics in driving simulation



Rod Deyo, John A. Briggs, Pete Doenges

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques SIGGRAPH '88**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(3.63 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Man-in-the-loop simulation uses a person in the control loop to provide feedback to the system operations. Proper operator cueing must be provided to ensure a realistic response. Real-time computer graphics and dynamics both play dominant roles in providing these necessary cues. Dynamics simulation of modern vehicles requires a multi-body non-linear approach for acceptable fidelity of motion. A vehicle can be modeled as a set of linked rigid bodies, whose connections are described by a graph. Re ...

Keywords: engineering simulation, parallel algorithms, real-time dynamics, real-time graphics, vehicle simulation, visual systems

9 Simulation as a tool for continuous process improvement



Mel Adams, Paul Componation, Hank Czarnecki, Bernard J. Schroer

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**

Publisher: ACM Press

Full text available: pdf(77.44 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

10 Simulation in a CIM environment: structure for analysis and real-time control



Catherine M. Harmonosky, Dean C. Barrick

December 1988 **Proceedings of the 20th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(723.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Simulation has long been recognized as a valuable tool for analyzing manufacturing systems. It is effective for assessing the impact of changing system parameters (e.g. reducing processing time) upon system performance measures, and it can also aid decisions concerning system configuration. At Penn State, simulation is playing an important role in the development of a Computer Integrated Manufacturing Laboratory. Currently, it is being used as an analysis tool studying system design and com ...

11 Decoupled simulation in virtual reality with the MR toolkit



Chris Shaw, Mark Green, Jiandong Liang, Yunqi Sun

July 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 3

Publisher: ACM Press

Full text available: pdf(2.65 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: interactive 3D graphics, user interface software

12 WITNESS simulation software: a flexible suite of simulation tools

 Pam Laney Markt, Michael H. Mayer

December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press

Full text available:  pdf(810.23 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

13 Manufacturing applications: Neutral information structure for manufacturing simulations: a neutral information model for simulating machine shop operations

Y. Tina Lee, Charles McLean, Guodong Shao


December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available:  pdf(348.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Small machine shops typically do not have the resources to develop custom simulations of their operations or data translators to import their data from other manufacturing software applications. This paper presents an overview of an information model currently under development at the National Institute of Standards and Technology (NIST) to address this problem. The model provides neutral data interfaces for integrating machine shop software applications with simulation. The information model ...

14 Retargeting of compiled simulators for digital signal processors using a machine description language

 Stefan Pees, Andreas Hoffmann, Heinrich Meyr

January 2000 **Proceedings of the conference on Design, automation and test in Europe**


Publisher: ACM Press

Full text available:  pdf(448.91 KB)

 [Publisher Site](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Simulating semiconductor manufacturing systems: successes, failures, and deep questions

 Karl G. Kempf

November 1996 **Proceedings of the 28th conference on Winter simulation**

Publisher: ACM Press


Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [citations](#)

16 A simulation of Knuth's mix machine as a teaching tool

Bobby Nakanelua, Michael Curtsinger

January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(80.55 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

17 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli



April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,

Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(385.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

18 Optimization of a cycle time and utilization in semiconductor test manufacturing using simulation based, on-line, near-real-time scheduling system



Appa Iyer Sivakumar

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**

Publisher: ACM Press

Full text available: pdf(142.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

19 Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: [full citation](#)

20 Physical simulation of flexible Manufacturing Systems

Charles H. Falkner, Natraj Shanker

January 1984 **Proceedings of the 16th conference on Winter simulation**

Publisher: IEEE Press

Full text available: pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The physical simulation capabilities of the Manufacturing Systems Laboratory are presented. The benefits of physical simulation are briefly noted. A Fischer-Technik based simulator of a flexible manufacturing cell is explained in detail. Plans to integrate computer-aided-design (CAD) into the modeling process are discussed and small robot physical simulation facilities are described. After relating some of our experiences and plans, we explain how the Manufacturing Systems Laboratory object ...

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